

## PT 910-4 Two Part Potting Silicone

### Description

PT 910-4 is a two part black colored RTV silicone rubber. The cured silicone rubber of over 72 hours at room temperature provides good high and low temperature performance, and excellent adhesion strength to variety ceramic, glass and metals substrate. This silicone system has low hardness and yet provides low stress for excellent performances in temperature cycling from -40 to 100°C and high temperature storage up to 85°C.

### Properties

Property	Unit	Typical Value		
		Part A Resin	Part B Crosslinker	Mixed
Chemical type	-	Polysiloxane	Oxime silane	Polysiloxane
Appearance	-	Black colored viscous liquid	Slight yellowish transparent liquid	Black colored viscous liquid
Mix ratio, by weight	-	20	1	-
Shelf life, 25°C	Month	12	12	-
Pot life, 25°C	Minute	-	-	40
Viscosity, 100rpm, C06	cP	10,000	10	7,500
Hardness, cured @ 24 hrs	Shore A	-	-	27

### Applications

1. Used for potting or encapsulation for LED device or other electronic component.

6. Wipe off any excess uncured adhesive with a piece of dry cloth or tissue. Further cleaning may be achieved with tissue wetted with isopropanol or toluene.

### Environment, Health & Safety

This product is RoHS compliant. It does not contain any known carcinogenic, mutagenic or teratogenic components.

### Guidelines for Use

1. Add the part A resin into part B crosslinker by weight ratio 100:5. Stir with an electric mixer until the silicone is homogeneously. (It is advised to agitate the part A resin first before mixing.)
2. Remove the air bubbles in the silicone mix by vacuum degas at 0.001mbar (0.1 Pa) for 5 minutes.
3. Cure the silicone at room temperature for 24 hours. Full cure properties can be achieved after 72 hours.
4. If pouring depth is more than 6mm, curing time will take longer.
5. Avoid closed environment and high ambient temperature more than 60°C when curing.

### Recommended Cure

Condition	Cure Time
25 °C / 50±5%RH	24 hours

### Storage

Store both Part A resin and Part B crosslinker in a cool, and dry place to prolong shelf life. Keep away from sunlight and bright room lights.

### Packaging

- 500g plastic bottle
- 1 kg plastic bottle
- 5 kg plastic bottle

### Contact Information

Penchem Technologies Sdn Bhd  
(767120-A), 1015, Jalan Perindustrian Bukit Minyak 7, 14100 Penang, Malaysia  
T: +604-501 5976, 77, 78  
F: +604-501 5979  
E: [enquiry@penchem.com](mailto:enquiry@penchem.com)  
W: [www.penchem.com](http://www.penchem.com)

Revision 7: 3-Jul-18.TC